

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits   | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|--------|---|---|------------------|---------|---------------------|
| L1    | 414    | \$8trifluorostyrene and styrene and (sulfonyl \$1flouoride or (sulfonic adj acid))    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/03/08<br>10:49 |
| L2    | 194    | L1 and electrolyte and membrane   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/03/08<br>10:50 |
| L3    | 178    | L2 and (fuel adj cell)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/03/08<br>10:51 |
| L4    | 278    | (\$8trifluorostyrene with styrene) and (sulfonyl \$1flouoride or (sulfonic adj acid)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/03/08<br>10:55 |
| L5    | 86     | L4 and electrolyte and membrane   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/03/08<br>10:55 |
| L6    | 77     | L5 and (fuel adj cell)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/03/08<br>10:55 |
| S1    | 127991 | Yang.IN.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/12/19<br>15:02 |

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| S2  | 316 | trifluorostyrene and electrolyte and membrane  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/19<br>15:03 |
| S3  | 13  | S1 and S2  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/19<br>15:04 |
| S4  | 2   | WO-9725369-\$.did.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/12/19<br>15:18 |
| S5  | 19  | ((("20080032184") or<br>("20060264576") or<br>("20060276556") or<br>("20060276556") or<br>("3664915") or<br>("3953566") or<br>("3962153") or<br>("4187390")).PN. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/19<br>14:12 |
| S6  | 340 | trifluorostyrene and electrolyte and membrane  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/19<br>14:13 |
| S7  | 3   | S5 and S6  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/19<br>14:13 |
| S10 | 2   | "7563532"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/01/22<br>10:14 |
| S11 | 1   | EP-1095071-\$.did.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/01<br>13:48 |

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| S12 | 0   | trifluorostyrene and sulfonyl fluoride        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/01<br>14:13 |
| S13 | 0   | trifluorostyrene and sulfonyl fluoride        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/01<br>14:13 |
| S14 | 377 | trifluorostyrene and electrolyte and membrane | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/01<br>15:18 |
| S15 | 228 | S14 and styrene                               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/01<br>15:18 |
| S16 | 201 | S15 and (sulfonic or sulfonyl)                | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/01<br>15:19 |
| S17 | 3   | "20050107506"                                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/02<br>10:02 |
| S18 | 3   | "20050154104"                                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/02<br>10:05 |
| S19 | 2   | "20040171736"                                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/02<br>10:08 |

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| S20 | 3     | "20040186219"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/02<br>10:09 |
| S21 | 32641 | ((ion or anion) with<br>exchange) and<br>concentration and<br>(fluoropolymer or<br>fluororesin or fluorinated<br>or fluorine) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/02<br>10:30 |
| S22 | 0     | ((fluorine\$1free or non<br>\$1fluorinated) with (anion<br>adj surfactant)) and S21   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/02<br>10:32 |
| S23 | 0     | ((free or non<br>\$1fluorinated) with (anion<br>adj surfactant)) and S21  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/02<br>10:33 |
| S24 | 120   | ((free or non<br>\$1fluorinated) with (anion<br>adj surfactant))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/02<br>10:33 |
| S25 | 0     | ((ion or anion) with<br>exchange) and<br>concentration and S24  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/02<br>10:34 |
| S26 | 2     | ((ion or anion) with<br>exchange) and S24   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/02<br>10:34 |
| S27 | 16    | concentration and S24   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/02<br>10:34 |

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| S28 | 142   | Sawauchi.I.N.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/02<br>10:36 |
| S29 | 29333 | Tsuda.I.N.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/02<br>10:36 |
| S30 | 29409 | S28 or S29   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/02<br>10:36 |
| S31 | 54    | S30 and S21  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/02<br>10:36 |
| S32 | 54    | ((ion or anion) with<br>exchange) and<br>concentration and S31                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/02<br>10:37 |
| S33 | 0     | ((free or non<br>\$1fluorinated) with (anion<br>adj surfactant)) and S32       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/02<br>10:37 |
| S34 | 0     | ((free or no or non<br>\$1fluorinated) with (anion<br>adj surfactant)) and S32 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/03/02<br>10:37 |
| S35 | 3     | ("4369266").PN.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/03/02<br>11:41 |

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